ABSTRACT OF THE DISCLOSURE

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A method for obtaining seismic data is disclosed. A constellation of seismic
energy sources is translated along a survey path. The seismic energy
sources include a reference energy source and a satellite energy source. The
reference energy source is activated and the satellite energy source is
activated at a time delay relative to the activation of the reference energy
source. This is repeated at each of the spaced apart activation locations
along the survey path to generate a series of superposed wavefields. The
time delay is varied between each of the spaced apart activation locations.
Seismic data processing comprises sorting the traces into a common-
geometry domain and replicating the traces into multiple datasets associated
with each particular energy source. Each trace is time adjusted in each
replicated dataset in the common-geometry domain using the time delays
associated with each particular source. This result in signals generated from
that particular energy source being generally coherent while rendering signals
from the other energy source is generally incoherent. The coherent and
incoherent signals are then filtered to attenuate incoherent signals.